

BLANKET PURCHASE ORDER

STATE OF MARYLAND

***** STATE OF MARYLAND *****

BPO NO: 001B0400127

PRINT DATE: 08/04/09

PAGE: 01

SHIP TO:

AS SPECIFIED ON INDIVIDUAL ORDERS

VENDOR ID: 1522059895
BELTWAY INTERNATIONAL TRUCKS LLC
1800 SULPHUR SPRING RD

BALTIMORE, MD 21227
(410) 247-5700

REFER QUESTIONS TO:

LINDA RULEY
(410) 767-4608
LINDA.RULEY@DGS.STATE.MD.US

ITB:

EXPR DATE: 07/31/10
POST DATE: 08/04/09

DISCOUNT TERMS: .
CONTRACT AMOUNT:

NET 30 DAY
.00

TERMS:

ARTICLES HEREIN ARE EXEMPT FROM MARYLAND SALES AND USE TAXES BY EXEMPTION CERTIFICATE NUMBER 3000256-3 AND FROM FEDERAL EXCISE TAXES BY EXEMPTION NUMBER 52-73-0358K. IT IS THE VENDOR'S RESPONSIBILITY TO ADVISE COMMON CARRIERS THAT AGENCIES OF THE STATE OF MARYLAND ARE EXEMPT FROM TRANSPORTATION TAX.

PER SOLICITATION #001IT817692

VENDOR CONTACT: DON MAHER 410-247-5700

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STATEWIDE CONTRACT
SUPPLY ONLY
DIESEL EMISSIONS CONTROL DEVICES

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SCOPE OF CONTRACT: REQUIREMENTS CONTRACT FOR SUPPLYING THE USING AUTHORITY WITH THEIR NEEDS FOR DIESEL EMISSION CONTROL DEVICES FOR HEAVY-DUTY DIESEL VEHICLES OWNED AND OPERATED BY STATE AGENCIES AND LOCAL GOVERNMENTS WITHIN THE STATE OF MARYLAND FOR THE CONTRACT PERIOD SPECIFIED.

RELEASES SHALL BE MADE AS REQUESTED BY THE USING AUTHORITY ON AN "AS-REQUIRED" BASIS.

CONTRACT PERIOD: AUGUST 1, 2009 THROUGH JULY 31, 2010.

THE TERM OF THE CONTRACT WILL BE A PERIOD OF ONE (1) YEAR BEGINNING FROM DATE OF AWARD. THE STATE RESERVES THE UNILATERAL OPTION TO RENEW THE CONTRACT FOR ONE (1) ADDITIONAL CONTRACT PERIOD.

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TERMS (cont'd):

NOTE: RENEWAL OPTIONS ARE AT THE DISCRETION OF THE STATE AND THE CONTRACTOR WILL NOT BE RELIEVED OF THE COMMITMENT TO RENEW THE CONTRACT. PRICES SUBMITTED AT THE TIME OF THE BID MUST REFLECT THE POTENTIAL INCREASES THROUGH THE TERM AND THE OUT YEARS OF THE CONTRACT.

CONTRACT SHALL REMAIN IN EFFECT FOR THE TIME PERIOD SPECIFIED UNLESS THE CONTRACT IS TERMINATED BY THE BUREAU. THE BUREAU MAY TERMINATE ANY CONTRACT WITHOUT SHOWING CAUSE UPON THIRTY (30) DAYS WRITTEN NOTICE TO THE CONTRACTOR.

THIS CONTRACT IS TO BE A FIRM FIXED PRICE CONTRACT. ALL PRICES CONTAINED HEREIN SHALL BE FIRM FOR THE ENTIRE CONTRACT PERIOD.

ALL PRICES ARE F.O.B. DESTINATION TO ANY POINT WITHIN THE STATE OF MARYLAND UNLESS OTHERWISE SPECIFIED ON THE LINE ITEM. PRICES INCLUDE ALL SHIPPING, HANDLING AND ADMINISTRATIVE CHARGES UNLESS OTHERWISE SPECIFIED ON THE LINE ITEM.

PAYMENT TERMS ARE NET, 30 DAYS.

QUANTITIES ARE ESTIMATES ONLY AND ARE NOT TO BE CONSTRUED AS ANY MINIMUM OR MAXIMUM GUARANTEE. USAGE WILL BE FOR THE ACTUAL REQUIREMENTS OF THE STATE AND MAY VARY APPRECIABLY FROM THE ESTIMATED QUANTITIES.

ALL PARTS OFFERED MUST BE EPA APPROVED. THE EPA LIST OF VERIFIED RETROFIT TECHNOLOGIES CAN BE FOUND AT WWW.EPA.GOV/OTAQ/RETROFIT/RETROVERIFIEDLIST.HTM IN ADDITION TO THE ABOVE LIST OF EPA VERIFIED RETROFIT TECHNOLOGIES, EPA RECOGNIZES AND ACCEPTS THOSE RETROFIT HARDWARE STRATEGIES OR DEVICE-BASED SYSTEMS THAT HAVE BEEN VERIFIED BY THE CALIFORNIA AIR RESOURCES BOARD (CARB). INFORMATION ABOUT CARB'S VERIFICATION PROGRAM AND THEIR LIST OF VERIFIED TECHNOLOGIES CAN BE FOUND AT THE ARB VERIFICATION PAGE, [HTTP://WWW.ARB.CA.GOV/DIESEL/VERDEV/VERDEV.HTM](http://WWW.ARB.CA.GOV/DIESEL/VERDEV/VERDEV.HTM) CLOSED CRANKCASE VENTILATION FILTRATION (CCVF) SYSTEMS ARE EXEMPTED FROM EPA AND CARB VERIFICATION REQUIREMENTS.

EQUIPMENT :THE DIESEL EMISSION CONTROL DEVICES COVERED BY THIS CONTRACT INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- * DIESEL OXIDATION CATALYSTS (DOC)
- * ACTIVE OR PASSIVE DIESEL PARTICULATE FILTERS (DPF)
- * PARTIAL DIESEL PARTICULATE FILTERS
- * CLOSED CRANKCASE VENTILATION FILTRATION (CCVF) SYSTEMS.
- * DIESEL PARTICULATE FILTER CLEANING SYSTEMS

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TERMS (cont'd):

- * CLOSED CRANKCASE VENTILATION FILTRATION SYSTEM REPLACEMENT FILTER MEDIA

QUALITY CONTROL AND DOCUMENTATION:

A. THE VENDOR MUST CERTIFY THAT THE DIESEL EMISSION CONTROL DEVICES ARE COMPATIBLE WITH THE APPLICATIONS. THE VENDOR MUST PRESENT OEM CONCURRENCE THAT THE DIESEL EMISSION CONTROL DEVICES WILL NOT AFFECT OEM WARRANTIES ON VEHICLES AND ENGINES THAT ARE STILL UNDER WARRANTY.

B. DIESEL EMISSION CONTROL DEVICES MUST CARRY A WARRANTY FOR AT LEAST ONE YEAR AGAINST FAILURE OF THE DEVICE TO MAINTAIN REQUIRED EMISSIONS TO MAINTAIN REQUIRED EMISSIONS REDUCTIONS AND AGAINST DAMAGE OR OTHER DEGRADED PERFORMANCE OF THE ENGINE OR OTHER COMPONENTS OF THE VEHICLE DUE TO THE PRESENCE OF ITS INSTALLATION.

C. WHERE SHIPPING CONTAINERS ARE TO BE USED, EACH CONTAINER MUST BE MARKED WITH THE PURCHASE ORDER NUMBER, CONTRACT NUMBER, NAME OF THE CONTRACTOR, NAME OF THE ITEM, ITEM NUMBER AND QUANTITY CONTAINED THEREIN.

D. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE MANUFACTURER COMPLIES WITH THE INSTRUCTIONS IN PARAGRAPH "C." ABOVE FOR ITEMS THAT ARE DROP-SHIPED.

E. THE STATE RESERVES THE RIGHT FOR SITE VISITS TO ANY VENDOR TO ASCERTAIN ABILITY TO FULFILL THE REQUIREMENTS OF THIS CONTRACT.

ALL PARTS INCLUDE INSTALLATION KITS.

ALL PRICES ARE F.O. B. DESTINATION AND INCLUDE ALL SHIPPING, HANDLING, AND ADMINISTRATIVE CHARGES UNLESS OTHERWISE NOTED ON THE LINE ITEM.

INSTALLATION OF PARTS IS NOT INCLUDED IN THIS CONTRACT.

REQUIRED DELIVERY TIME IS TO 8-12 WEEKS FROM RECEIPT OF INDIVIDUAL AGENCY ORDERS.

A REPORT MUST BE FURNISHED BY THE SUCCESSFUL VENDOR EVERY 3 MONTHS DETAILING THE PURCHASE OF ALL ITEMS ON THE CONTRACT. FORMAT SHALL BE AT VENDORS OPTION PROVIDING THAT, AS A MINIMUM, THE REPORT REFLECTS THE CONTRACT NUMBER, CONTRACT ITEM NUMBER, THE DOLLAR VOLUME PURCHASED OF EACH ITEM, AGENCY IDENTIFICATION, AND THE CONTRACT TOTAL.

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TERMS (cont'd):

THE REPORT MUST BE FILED WITHIN THIRTY (30) DAYS AFTER THE END OF EACH REPORTING PERIOD. ANY EXCEPTION TO THIS MANDATORY REQUIREMENT MAY RESULT IN CANCELLATION OF THE AWARD. FAILURE TO PROVIDE THE REPORT WITH THE MINIMUM REQUIRED INFORMATION MAY ALSO NEGATE ANY CONTRACT EXTENSION CLAUSES. ADDITIONALLY, VENDORS WHO ARE DETERMINED TO BE IN DEFAULT OF THIS MANDATORY REPORT REQUIREMENT WILL NOT BE ALLOWED TO BID ON ANY FUTURE REQUIREMENTS.

PURSUANT TO ARTICLE 41, SECTION 18-201 OF THE ANNOTATED CODE OF MARYLAND, EXCEPT AS PROVIDED IN (B) THE FOLLOWING ENTITIES MAY PURCHASE MATERIALS, SUPPLIES, AND EQUIPMENT UNDER THIS CONTRACT:

- (1) A COUNTY OR BALTIMORE CITY;
- (2) A MUNICIPAL CORPORATION;
- (3) A GOVERNMENTAL AGENCY IN THE STATE;
- (4) A PUBLIC OR QUASI-PUBLIC AGENCY THAT:
 - (I) RECEIVES STATE MONEY; AND
 - (II) IS EXEMPT FROM TAXATION UNDER SECTION 501(C)(3) OF THE INTERNAL REVENUE CODE:
- (5) A PRIVATE ELEMENTARY OR SECONDARY SCHOOL THAT:
 - (I) EITHER HAS BEEN ISSUED A CERTIFICATE OR APPROVAL FROM THE STATE BOARD OF EDUCATION OR IS ACCREDITED BY THE ASSOCIATION OF INDEPENDENT SCHOOLS; AND
 - (II) IS EXEMPT FROM TAXATION UNDER SECTION 501 (C)(3) OF THE INTERNAL REVENUE CODE:
OR
- (6) A NONPUBLIC INSTITUTION OF HIGHER EDUCATION UNDER SECTION 17-106 OF THE EDUCATION ACTICLE.

A PRIVATE ELEMENTARY OR SECONDARY SCHOOL OR A NONPUBLIC INSTITUTION OF HIGHER EDUCATION MAY NOT PURCHASE RELIGIOUS MATERIALS UNDER THIS CONTRACT

THE RIGHT TO PURCHASE UNDER THIS SECTION SHALL BE IN ADDITION TO, BUT NOT IN SUBSSITUTION FOR, THE APPLICABLE PURCHASING POWER GRANTED TO ANY OF THE LISTED ENTITIES PURSUANT TO ANY STATUTORY OR CHARTER PROVISION.

ALL PURCHASES UNDER THIS CONTRACT BY ANY SUCH ENTITY WHICH IS NOT A UNIT OR AGENCY OF THE STATE OF MARYLAND FOR WHICH THE STATE OF MARYLAND MAY BE HELD LIABLE IN CONTRACT (1) SHALL NOT CONSTITUTE A PURCHASE OR CONTRACT BETWEEN THE CONTRACTOR AND THAT ENTITY ONLY, (2)

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TERMS (cont'd):

SHALL NOT CONSTITUTE A PURCHASE OR CONTRACT OF THE STATE OF MARYLAND, (3) SHALL NOT BE BINDING OR ENFORCEABLE AGAINST THE STATE OF MARYLAND OR ANY OF ITS UNITS OR AGENCIES, AND (4) MAY BE SUBJECT TO OTHER TERMS AND CONDITIONS AGREED TO BY THE CONTRACTOR, AND THE PURCHASER. CONTRACTOR BEARS THE RISK OF DETERMINING WHETHER OR NOT ANY ENTITY FROM WHICH THE CONTRACTOR RECEIVES AN ORDER UNDER THE CONTRACT IS A UNIT OR AGENCY OF THE STATE OF MARYLAND SUCH THAT THE CONTRACT MAY BE ENFORCED AGAINST THE STATE OF MARYLAND.

<u>LINE #</u>	<u>STATE ITEM ID</u>	<u>U/M</u>	<u>UNIT COST</u>
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0001	92045-MEMA00	EA	
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DIESEL EMISSION CONTROL DEVICES:

HUSS - SEE ATTACHED LIST "A"
ADD \$250.00 FREIGHT PER UNIT.

0002	06038	EA	
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DIESEL EMISSION CONTROL DEVICES:

ESW FILTERS - SEE LIST "B"
ADD \$150.00 FREIGHT CHARGE PER UNIT TO LIST PRICE.

0003	06038	EA	
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DIESEL EMISSION CONTROL DEVICES:

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<u>LINE #</u>	<u>STATE ITEM ID</u>	<u>U/M</u>	<u>UNIT COST</u>
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INTERNATIONAL (ECS) - 17% DISCOUNT FROM NATIONAL FLEET PRICE LEVEL -
SEE ATTACHED LIST "C"
ADD \$250.00 FREIGHT CHARGE PER UNIT TO LIST PRICE.

0004	06038	EA
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DIESEL EMISSION CONTROL DEVICES:

INTERNATIONAL DOC -
#FN201177A \$1742.33 EACH
#FN201430A \$2920.23 EACH

ADD \$1075 PER UNIT FOR SOFTWARE.
FREIGHT IS INCLUDED IN PRICING.

0005	06038	EA
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DIESEL EMISSION CONTROL DEVICES:

INTERNATIONAL CCV'S -
INTERNATIONAL I-6 ENGINES = \$ 410.87
INTERNATIONAL T444E WITH HYDRAULIC BRAKES = \$ 407.16
T444E ENGINE MOUNTED = \$ 272.86
CUMMINS 5.9 LITER ENGINE = \$ 439.93
CATERPILLAR 3116 = \$ 410.87
INTERNATIONAL T444E WITH AIR BRAKES = \$ 404.23
DETROIT DIESEL SERIES 60 ENGINE = \$ 530.64

ADD \$60.00 FREIGHT CHARGE PER UNIT TO ALL PRICING.

0006	06038	EA
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DIESEL EMISSION CONTROL DEVICES:

INTERNATIONAL AUXILIARY POWER UNITS - SEE ATTACHED PRICE LIST "D".

0007	06038	EA
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<u>LINE #</u>	<u>STATE ITEM ID</u>	<u>U/M</u>	<u>UNIT COST</u>
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DIESEL EMISSION CONTROL DEVICES:

INTERNATIONAL AUTO-THERM HEATER - SEE ATTACHED PRICE LIST "E".
ADD \$100.00 FREIGHT PER UNIT FOR LESS THAN 5 UNITS.
FREIGHT IS INCLUDED FOR 5 UNITS OR MORE.

0008	06038	EA
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DIESEL EMISSIONS CONTROL DEVICES:

ESW CCVS - PER ATTACHED PRICE LIST "F"
ADD \$60.00 PER UNIT FOR FREIGHT.

0009	06038	EA
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DIESEL EMISSION CONTROL DEVICES:

INTERNATIONAL (ECS) STANDARD COMBICLEAN AND AUTOMATIC COMBICLEAN
UNITS -

STANDARD = \$ 5293.00

AUTOMATIC = \$ 8782.00

ADD \$750.00 FREIGHT PER UNIT

END OF ITEM LIST

***** LAST PAGE *****

AUTHORIZED BY: _____


BUYER AUTHORIZED DESIGNEE

DATE: _____

8/4/09

LINE 001 - PRICE LIST "A"

HUSS LLC Filter Product Number List

Product Number	Description	Price
10012101	FS40-MKS 12V e/r Ø2.37	\$ 7,754.00
10012102	FS40-MKS 12V e/a Ø2.37	\$ 7,754.00
10012105	FS40-MKS 12V s/r Ø2.37	\$ 7,754.00
10012106	FS40-MKS 12V s/a Ø2.37	\$ 7,754.00
10012109	FS40-MKS 24V e/r Ø2.37	\$ 8,211.00
10012110	FS40-MKS 24V e/a Ø2.37	\$ 8,211.00
10012113	FS40-MKS 24V s/r Ø2.37	\$ 8,211.00
10012114	FS40-MKS 24V s/a Ø2.37	\$ 8,211.00
10022101	FS50-MKS 12V e/r Ø2.37	\$ 8,012.00
10022101.1	FS50-MKS 12V e/r Ø2.37 Burner D On Road	\$ 8,012.00
10022101.2	FS50-MKS 12V e/r Ø2.37 Burner D2 On Road	\$ 8,012.00
10022101.3	FS50-MKS 12V e/r Ø2.37 Burner D1 Off Road	\$ 8,012.00
10022101.4	FS50-MKS 12V e/r Ø2.37 Burner D Off Road	\$ 8,012.00
10022101.5	FS50-MKS 12V e/r Ø2.37 Burner D2 Off Road	\$ 8,012.00
10022103	FS50-MKS 12V e/a Ø2.37	\$ 8,012.00
10022103.1	FS50-MKS 12V e/a Ø2.37 Burner D On Road	\$ 8,012.00
10022103.2	FS50-MKS 12V e/a Ø2.37 Burner D2 On Road	\$ 8,012.00
10022103.3	FS50-MKS 12V e/a Ø2.37 Burner D1 Off Road	\$ 8,012.00
10022103.4	FS50-MKS 12V e/a Ø2.37 Burner D Off Road	\$ 8,012.00
10022103.5	FS50-MKS 12V e/a Ø2.37 Burner D2 Off Road	\$ 8,012.00
10022105	DPF FS 50-MKS e/r V1 12V	\$ 8,012.00
10022106	DPF FS 50-MKS e/a V1 12V	\$ 8,012.00
10022107	FS50-MKS 12V s/r Ø2.37	\$ 8,012.00
10022107.1	FS50-MKS 12V s/r Ø2.37 Burner D On Road	\$ 8,012.00
10022107.2	FS50-MKS 12V s/r Ø2.37 Burner D2 On Road	\$ 8,012.00
10022107.3	FS50-MKS 12V s/r Ø2.37 Burner D1 Off Road	\$ 8,012.00
10022107.4	FS50-MKS 12V s/r Ø2.37 Burner D Off Road	\$ 8,012.00
10022107.5	FS50-MKS 12V s/r Ø2.37 Burner D2 Off Road	\$ 8,012.00
10022109	FS50-MKS 12V s/a Ø2.37 Burner D1 On Road	\$ 8,012.00
10022109.1	FS50-MKS 12V s/a Ø2.37 Burner D On Road	\$ 8,012.00
10022109.2	FS50-MKS 12V s/a Ø2.37 Burner D2 On Road	\$ 8,012.00
10022109.3	FS50-MKS 12V s/a Ø2.37 Burner D1 Off Road	\$ 8,012.00
10022109.4	FS50-MKS 12V s/a Ø2.37 Burner D Off Road	\$ 8,012.00
10022109.5	FS50-MKS 12V s/a Ø2.37 Burner D2 Off Road	\$ 8,012.00
10022111	FS50-MKS 12V s/r Ø3.15	\$ 8,012.00
10022112	FS50-MKS 12V s/a Ø3.15	\$ 8,012.00
10022113	FS50-MKS 24V e/r Ø2.37 Burner D1 On Road	\$ 8,739.00
10022113.1	FS50-MKS 24V e/r Ø2.37 Burner D On Road	\$ 8,739.00
10022113.2	FS50-MKS 24V e/r Ø2.37 Burner D2 On Road	\$ 8,739.00
10022113.3	FS50-MKS 24V e/r Ø2.37 Burner D1 Off Road	\$ 8,739.00
10022113.4	FS50-MKS 24V e/r Ø2.37 Burner D Off Road	\$ 8,739.00
10022113.5	FS50-MKS 24V e/r Ø2.37 Burner D2 Off Road	\$ 8,739.00
10022115	FS50-MKS 24V e/a Ø2.37 Burner D1 On Road	\$ 8,739.00
10022115.1	FS50-MKS 24V e/a Ø2.37 Burner D On Road	\$ 8,739.00
10022115.2	FS50-MKS 24V e/a Ø2.37 Burner D2 On Road	\$ 8,739.00
10022115.3	FS50-MKS 24V e/a Ø2.37 Burner D1 Off Road	\$ 8,739.00
10022115.4	FS50-MKS 24V e/a Ø2.37 Burner D Off Road	\$ 8,739.00
10022115.5	FS50-MKS 24V e/a Ø2.37 Burner D2 Off Road	\$ 8,739.00
10022117	FS50-MKS 24V e/r Ø3.15	\$ 8,739.00
10022118	FS50-MKS 24V e/a Ø3.15	\$ 8,739.00
10022119	FS50-MKS 24V s/r Ø2.37 Burner D1 On Road	\$ 8,739.00
10022119.1	FS50-MKS 24V s/r Ø2.37 Burner D On Road	\$ 8,739.00
10022119.2	FS50-MKS 24V s/r Ø2.37 Burner D2 On Road	\$ 8,739.00
10022119.3	FS50-MKS 24V s/r Ø2.37 Burner D1 Off Road	\$ 8,739.00

HUSS LLC Filter Product Number List

Product Number	Description	Price
10022119.4	FS50-MKS 24V s/r Ø2.37 Burner D Off Road	\$ 8,739.00
10022119.5	FS50-MKS 24V s/r Ø2.37 Burner D2 Off Road	\$ 8,739.00
10022121	FS50-MKS 24V s/a Ø2.37 Burner D1 On Road	\$ 8,739.00
10022121.1	FS50-MKS 24V s/a Ø2.37 Burner D On Road	\$ 8,739.00
10022121.2	FS50-MKS 24V s/a Ø2.37 Burner D2 On Road	\$ 8,739.00
10022121.3	FS50-MKS 24V s/a Ø2.37 Burner D1 Off Road	\$ 8,739.00
10022121.4	FS50-MKS 24V s/a Ø2.37 Burner D Off Road	\$ 8,739.00
10022121.5	FS50-MKS 24V s/a Ø2.37 Burner D2 Off Road	\$ 8,739.00
10022123	FS50-MKS 24V s/r Ø3.15	\$ 8,739.00
10022124	FS50-MKS 24V s/a Ø3.15	\$ 8,739.00
10022412	FS56-MDS 24V a	\$ 10,200.00
10032102	FS80-MKS 12V	\$ 9,797.00
10032103	FS80-MKS 12V e/r Ø3.15 Burner D1 On Road	\$ 9,797.00
10032103.1	FS80-MKS 12V e/r Ø3.15 Burner D On Road	\$ 9,797.00
10032103.2	FS80-MKS 12V e/r Ø3.15 Burner D2 On Road	\$ 9,797.00
10032103.3	FS80-MKS 12V e/r Ø3.15 Burner D1 Off Road	\$ 9,797.00
10032103.4	FS80-MKS 12V e/r Ø3.15 Burner D Off Road	\$ 9,797.00
10032103.5	FS80-MKS 12V e/r Ø3.15 Burner D2 Off Road	\$ 9,797.00
10032106	FS80-MKS 12V e/a Ø3.15 Burner D1 On Road	\$ 9,797.00
10032106.1	FS80-MKS 12V e/a Ø3.15 Burner D On Road	\$ 9,797.00
10032106.2	FS80-MKS 12V e/a Ø3.15 Burner D2 On Road	\$ 9,797.00
10032106.3	FS80-MKS 12V e/a Ø3.15 Burner D1 Off Road	\$ 9,797.00
10032106.4	FS80-MKS 12V e/a Ø3.15 Burner D Off Road	\$ 9,797.00
10032106.5	FS80-MKS 12V e/a Ø3.15 Burner D2 Off Road	\$ 9,797.00
10032108	FS80-MKS 12V s/r Ø3.15 Burner D1 On Road	\$ 9,797.00
10032108.1	FS80-MKS 12V s/r Ø3.15 Burner D On Road	\$ 9,797.00
10032108.2	FS80-MKS 12V s/r Ø3.15 Burner D2 On Road	\$ 9,797.00
10032108.3	FS80-MKS 12V s/r Ø3.15 Burner D1 Off Road	\$ 9,797.00
10032108.4	FS80-MKS 12V s/r Ø3.15 Burner D Off Road	\$ 9,797.00
10032108.5	FS80-MKS 12V s/r Ø3.15 Burner D2 Off Road	\$ 9,797.00
10032111	FS80-MKS 12V s/a Ø3.15 Burner D1 On Road	\$ 9,797.00
10032111.1	FS80-MKS 12V s/a Ø3.15 Burner D On Road	\$ 9,797.00
10032111.2	FS80-MKS 12V s/a Ø3.15 Burner D2 On Road	\$ 9,797.00
10032111.3	FS80-MKS 12V s/a Ø3.15 Burner D1 Off Road	\$ 9,797.00
10032111.4	FS80-MKS 12V s/a Ø3.15 Burner D Off Road	\$ 9,797.00
10032111.5	FS80-MKS 12V s/a Ø3.15 Burner D2 Off Road	\$ 9,797.00
10032113	FS80-MKS 24V e/r Ø3.15 Burner D1 On Road	\$ 10,657.00
10032113.1	FS80-MKS 24V e/r Ø3.15 Burner D On Road	\$ 10,657.00
10032113.2	FS80-MKS 24V e/r Ø3.15 Burner D2 On Road	\$ 10,657.00
10032113.3	FS80-MKS 24V e/r Ø3.15 Burner D1 Off Road	\$ 10,657.00
10032113.4	FS80-MKS 24V e/r Ø3.15 Burner D Off Road	\$ 10,657.00
10032113.5	FS80-MKS 24V e/r Ø3.15 Burner D2 Off Road	\$ 10,657.00
10032116	FS80-MKS 24V e/a Ø3.15 Burner D1 On Road	\$ 10,657.00
10032116.1	FS80-MKS 24V e/a Ø3.15 Burner D On Road	\$ 10,657.00
10032116.2	FS80-MKS 24V e/a Ø3.15 Burner D2 On Road	\$ 10,657.00
10032116.3	FS80-MKS 24V e/a Ø3.15 Burner D1 Off Road	\$ 10,657.00
10032116.4	FS80-MKS 24V e/a Ø3.15 Burner D Off Road	\$ 10,657.00
10032116.5	FS80-MKS 24V e/a Ø3.15 Burner D2 Off Road	\$ 10,657.00
10032118	FS80-MKS 24V s/r Ø3.15 Burner D1 On Road	\$ 10,657.00
10032118.1	FS80-MKS 24V s/r Ø3.15 Burner D On Road	\$ 10,657.00
10032118.2	FS80-MKS 24V s/r Ø3.15 Burner D2 On Road	\$ 10,657.00
10032118.3	FS80-MKS 24V s/r Ø3.15 Burner D1 Off Road	\$ 10,657.00
10032118.4	FS80-MKS 24V s/r Ø3.15 Burner D Off Road	\$ 10,657.00
10032118.5	FS80-MKS 24V s/r Ø3.15 Burner D2 Off Road	\$ 10,657.00

HUSS LLC Filter Product Number List

Product Number	Description	Price
10032121	FS80-MKS 24V s/a Ø3.15 Burner D1 On Road	\$ 10,657.00
10032121.1	FS80-MKS 24V s/a Ø3.15 Burner D On Road	\$ 10,657.00
10032121.2	FS80-MKS 24V s/a Ø3.15 Burner D2 On Road	\$ 10,657.00
10032121.3	FS80-MKS 24V s/a Ø3.15 Burner D1 Off Road	\$ 10,657.00
10032121.4	FS80-MKS 24V s/a Ø3.15 Burner D Off Road	\$ 10,657.00
10032121.5	FS80-MKS 24V s/a Ø3.15 Burner D2 Off Road	\$ 10,657.00
10033101	FS80-MKM 12V e/r Ø3.15 Burner D1 On Road	\$ 11,653.00
10033101.1	FS80-MKM 12V e/r Ø3.15 Burner D On Road	\$ 11,653.00
10033101.2	FS80-MKM 12V e/r Ø3.15 Burner D2 On Road	\$ 11,653.00
10033101.3	FS80-MKM 12V e/r Ø3.15 Burner D1 Off Road	\$ 11,653.00
10033101.4	FS80-MKM 12V e/r Ø3.15 Burner D Off Road	\$ 11,653.00
10033101.5	FS80-MKM 12V e/r Ø3.15 Burner D2 Off Road	\$ 11,653.00
10033104	FS80-MKM 12V e/a Ø3.15 Burner D1 On Road	\$ 11,653.00
10033104.1	FS80-MKM 12V e/a Ø3.15 Burner D On Road	\$ 11,653.00
10033104.2	FS80-MKM 12V e/a Ø3.15 Burner D2 On Road	\$ 11,653.00
10033104.3	FS80-MKM 12V e/a Ø3.15 Burner D1 Off Road	\$ 11,653.00
10033104.4	FS80-MKM 12V e/a Ø3.15 Burner D Off Road	\$ 11,653.00
10033104.5	FS80-MKM 12V e/a Ø3.15 Burner D2 Off Road	\$ 11,653.00
10033106	FS80-MKM 12V s/r Ø3.15 Burner D1 On Road	\$ 11,653.00
10033106.1	FS80-MKM 12V s/r Ø3.15 Burner D On Road	\$ 11,653.00
10033106.2	FS80-MKM 12V s/r Ø3.15 Burner D2 On Road	\$ 11,653.00
10033106.3	FS80-MKM 12V s/r Ø3.15 Burner D1 Off Road	\$ 11,653.00
10033106.4	FS80-MKM 12V s/r Ø3.15 Burner D Off Road	\$ 11,653.00
10033106.5	FS80-MKM 12V s/r Ø3.15 Burner D2 Off Road	\$ 11,653.00
10033109	FS80-MKM 12V s/a Ø3.15 Burner D1 On Road	\$ 11,653.00
10033109.1	FS80-MKM 12V s/a Ø3.15 Burner D On Road	\$ 11,653.00
10033109.2	FS80-MKM 12V s/a Ø3.15 Burner D2 On Road	\$ 11,653.00
10033109.3	FS80-MKM 12V s/a Ø3.15 Burner D1 Off Road	\$ 11,653.00
10033109.4	FS80-MKM 12V s/a Ø3.15 Burner D Off Road	\$ 11,653.00
10033109.5	FS80-MKM 12V s/a Ø3.15 Burner D2 Off Road	\$ 11,653.00
10033111	FS80-MKM 24V e/r Ø3.15 Burner D1 On Road	\$ 12,316.00
10033111.1	FS80-MKM 24V e/r Ø3.15 Burner D On Road	\$ 12,316.00
10033111.2	FS80-MKM 24V e/r Ø3.15 Burner D2 On Road	\$ 12,316.00
10033111.3	FS80-MKM 24V e/r Ø3.15 Burner D1 Off Road	\$ 12,316.00
10033111.4	FS80-MKM 24V e/r Ø3.15 Burner D Off Road	\$ 12,316.00
10033111.5	FS80-MKM 24V e/r Ø3.15 Burner D2 Off Road	\$ 12,316.00
10033114	FS80-MKM 24V e/a Ø3.15 Burner D1 On Road	\$ 12,316.00
10033114.1	FS80-MKM 24V e/a Ø3.15 Burner D On Road	\$ 12,316.00
10033114.2	FS80-MKM 24V e/a Ø3.15 Burner D2 On Road	\$ 12,316.00
10033114.3	FS80-MKM 24V e/a Ø3.15 Burner D1 Off Road	\$ 12,316.00
10033114.4	FS80-MKM 24V e/a Ø3.15 Burner D Off Road	\$ 12,316.00
10033114.5	FS80-MKM 24V e/a Ø3.15 Burner D2 Off Road	\$ 12,316.00
10033116	FS80-MKM 24V s/r Ø3.15 Burner D1 On Road	\$ 12,316.00
10033116.1	FS80-MKM 24V s/r Ø3.15 Burner D On Road	\$ 12,316.00
10033116.2	FS80-MKM 24V s/r Ø3.15 Burner D2 On Road	\$ 12,316.00
10033116.3	FS80-MKM 24V s/r Ø3.15 Burner D1 Off Road	\$ 12,316.00
10033116.4	FS80-MKM 24V s/r Ø3.15 Burner D Off Road	\$ 12,316.00
10033116.5	FS80-MKM 24V s/r Ø3.15 Burner D2 Off Road	\$ 12,316.00
10033119	FS80-MKM 24V s/a Ø3.15 Burner D1 On Road	\$ 12,316.00
10033119.1	FS80-MKM 24V s/a Ø3.15 Burner D On Road	\$ 12,316.00
10033119.2	FS80-MKM 24V s/a Ø3.15 Burner D2 On Road	\$ 12,316.00
10033119.3	FS80-MKM 24V s/a Ø3.15 Burner D1 Off Road	\$ 12,316.00
10033119.4	FS80-MKM 24V s/a Ø3.15 Burner D Off Road	\$ 12,316.00
10033119.5	FS80-MKM 24V s/a Ø3.15 Burner D2 Off Road	\$ 12,316.00

HUSS LLC Filter Product Number List

Product Number	Description	Price
10034101	FS80-MKL 12V e/r Ø3.15 Burner D1 On Road	\$ 13,348.00
10034101.1	FS80-MKL 12V e/r Ø3.15 Burner D On Road	\$ 13,348.00
10034101.2	FS80-MKL 12V e/r Ø3.15 Burner D2 On Road	\$ 13,348.00
10034101.3	FS80-MKL 12V e/r Ø3.15 Burner D1 Off Road	\$ 13,348.00
10034101.4	FS80-MKL 12V e/r Ø3.15 Burner D Off Road	\$ 13,348.00
10034101.5	FS80-MKL 12V e/r Ø3.15 Burner D2 Off Road	\$ 13,348.00
10034104	FS80-MKL 12V e/a Ø3.15 Burner D1 On Road	\$ 13,348.00
10034104.1	FS80-MKL 12V e/a Ø3.15 Burner D On Road	\$ 13,348.00
10034104.2	FS80-MKL 12V e/a Ø3.15 Burner D2 On Road	\$ 13,348.00
10034104.3	FS80-MKL 12V e/a Ø3.15 Burner D1 Off Road	\$ 13,348.00
10034104.4	FS80-MKL 12V e/a Ø3.15 Burner D Off Road	\$ 13,348.00
10034104.5	FS80-MKL 12V e/a Ø3.15 Burner D2 Off Road	\$ 13,348.00
10034106	FS80-MKL 12V s/r Ø3.15 Burner D1 On Road	\$ 13,348.00
10034106.1	FS80-MKL 12V s/r Ø3.15 Burner D On Road	\$ 13,348.00
10034106.2	FS80-MKL 12V s/r Ø3.15 Burner D2 On Road	\$ 13,348.00
10034106.3	FS80-MKL 12V s/r Ø3.15 Burner D1 Off Road	\$ 13,348.00
10034106.4	FS80-MKL 12V s/r Ø3.15 Burner D Off Road	\$ 13,348.00
10034106.5	FS80-MKL 12V s/r Ø3.15 Burner D2 Off Road	\$ 13,348.00
10034109	FS80-MKL 12V s/a Ø3.15 Burner D1 On Road	\$ 13,348.00
10034109.1	FS80-MKL 12V s/a Ø3.15 Burner D On Road	\$ 13,348.00
10034109.2	FS80-MKL 12V s/a Ø3.15 Burner D2 On Road	\$ 13,348.00
10034109.3	FS80-MKL 12V s/a Ø3.15 Burner D1 Off Road	\$ 13,348.00
10034109.4	FS80-MKL 12V s/a Ø3.15 Burner D Off Road	\$ 13,348.00
10034109.5	FS80-MKL 12V s/a Ø3.15 Burner D2 Off Road	\$ 13,348.00
10034111	FS80-MKL 24V e/r Ø3.15 Burner D1 On Road	\$ 13,718.00
10034111.1	FS80-MKL 24V e/r Ø3.15 Burner D On Road	\$ 13,718.00
10034111.2	FS80-MKL 24V e/r Ø3.15 Burner D2 On Road	\$ 13,718.00
10034111.3	FS80-MKL 24V e/r Ø3.15 Burner D1 Off Road	\$ 13,718.00
10034111.4	FS80-MKL 24V e/r Ø3.15 Burner D Off Road	\$ 13,718.00
10034111.5	FS80-MKL 24V e/r Ø3.15 Burner D2 Off Road	\$ 13,718.00
10034114	FS80-MKL 24V e/a Ø3.15 Burner D1 On Road	\$ 13,718.00
10034114.1	FS80-MKL 24V e/a Ø3.15 Burner D On Road	\$ 13,718.00
10034114.2	FS80-MKL 24V e/a Ø3.15 Burner D2 On Road	\$ 13,718.00
10034114.3	FS80-MKL 24V e/a Ø3.15 Burner D1 Off Road	\$ 13,718.00
10034114.4	FS80-MKL 24V e/a Ø3.15 Burner D Off Road	\$ 13,718.00
10034114.5	FS80-MKL 24V e/a Ø3.15 Burner D2 Off Road	\$ 13,718.00
10034116	FS80-MKL 24V s/r Ø3.15 Burner D1 On Road	\$ 13,718.00
10034116.1	FS80-MKL 24V s/r Ø3.15 Burner D On Road	\$ 13,718.00
10034116.2	FS80-MKL 24V s/r Ø3.15 Burner D2 On Road	\$ 13,718.00
10034116.3	FS80-MKL 24V s/r Ø3.15 Burner D1 Off Road	\$ 13,718.00
10034116.4	FS80-MKL 24V s/r Ø3.15 Burner D Off Road	\$ 13,718.00
10034116.5	FS80-MKL 24V s/r Ø3.15 Burner D2 Off Road	\$ 13,718.00
10034119	FS80-MKL 24V s/a Ø3.15 Burner D1 On Road	\$ 13,718.00
10034119.1	FS80-MKL 24V s/a Ø3.15 Burner D On Road	\$ 13,718.00
10034119.2	FS80-MKL 24V s/a Ø3.15 Burner D2 On Road	\$ 13,718.00
10034119.3	FS80-MKL 24V s/a Ø3.15 Burner D1 Off Road	\$ 13,718.00
10034119.4	FS80-MKL 24V s/a Ø3.15 Burner D Off Road	\$ 13,718.00
10034119.5	FS80-MKL 24V s/a Ø3.15 Burner D2 Off Road	\$ 13,718.00
10036101	FS160-MKS 12V E/A	\$ 19,594.00
10037101	FS160-MKL 12V e/r Ø3.15 Burner D1 On Road	\$ 27,581.00
10037101.1	FS160-MKL 12V e/r Ø3.15 Burner D On Road	\$ 27,581.00
10037101.2	FS160-MKL 12V e/r Ø3.15 Burner D2 On Road	\$ 27,581.00
10037101.3	FS160-MKL 12V e/r Ø3.15 Burner D1 Off Road	\$ 27,581.00
10037102	FS160-MKL 12V e/a Ø3.15 Burner D1 On Road	\$ 27,581.00

HUSS LLC Filter Product Number List

Product Number	Description	Price
10037102.1	FS160-MKL 12V e/a Ø3.15 Burner D On Road	\$ 27,581.00
10037102.2	FS160-MKL 12V e/a Ø3.15 Burner D2 On Road	\$ 27,581.00
10037102.3	FS160-MKL 12V e/a Ø3.15 Burner D1 Off Road	\$ 27,581.00
10037102.4	FS160-MKL 12V e/a Ø3.15 Burner D Off Road	\$ 27,581.00
10037102.5	FS160-MKL 12V e/a Ø3.15 Burner D2 Off Road	\$ 27,581.00
10037105	FS160-MKL 24V e/r Ø3.15 Burner D1 On Road	\$ 28,495.00
10037105.1	FS160-MKL 24V e/r Ø3.15 Burner D On Road	\$ 28,495.00
10037105.2	FS160-MKL 24V e/r Ø3.15 Burner D2 On Road	\$ 28,495.00
10037105.3	FS160-MKL 24V e/r Ø3.15 Burner D1 Off Road	\$ 28,495.00
10037105.4	FS160-MKL 24V e/r Ø3.15 Burner D Off Road	\$ 28,495.00
10037105.5	FS160-MKL 24V e/r Ø3.15 Burner D2 Off Road	\$ 28,495.00
10037106	FS160-MKL 24V e/a Ø3.15 Burner D1 On Road	\$ 28,495.00
10037106.1	FS160-MKL 24V e/a Ø3.15 Burner D On Road	\$ 28,495.00
10037106.2	FS160-MKL 24V e/a Ø3.15 Burner D2 On Road	\$ 28,495.00
10037106.3	FS160-MKL 24V e/a Ø3.15 Burner D1 Off Road	\$ 28,495.00
10037106.4	FS160-MKL 24V e/a Ø3.15 Burner D Off Road	\$ 28,495.00
10037106.5	FS160-MKL 24V e/a Ø3.15 Burner D2 Off Road	\$ 28,495.00
10042101	FS100-MKS 12V e/r Ø4.50 Burner D On Road	\$ 13,661.00
10042101.1	FS100-MKS 12V e/r Ø4.50 Burner D2 On Road	\$ 13,661.00
10042101.2	FS100-MKS 12V e/r Ø4.50 Burner D Off Road	\$ 13,661.00
10042101.3	FS100-MKS 12V e/r Ø4.50 Burner D2 Off Road	\$ 13,661.00
10042103	FS100-MKS 12V e/a Ø4.50 Burner D On Road	\$ 13,661.00
10042103.1	FS100-MKS 12V e/a Ø4.50 Burner D2 On Road	\$ 13,661.00
10042103.2	FS100-MKS 12V e/a Ø4.50 Burner D Off Road	\$ 13,661.00
10042103.3	FS100-MKS 12V e/a Ø4.50 Burner D2 Off Road	\$ 13,661.00
10042105	FS100-MKS 12V s/r Ø4.50 Burner D On Road	\$ 13,661.00
10042105.1	FS100-MKS 12V s/r Ø4.50 Burner D2 On Road	\$ 13,661.00
10042105.2	FS100-MKS 12V s/r Ø4.50 Burner D Off Road	\$ 13,661.00
10042105.3	FS100-MKS 12V s/r Ø4.50 Burner D2 Off Road	\$ 13,661.00
10042107	FS100-MKS 12V s/a Ø4.50 Burner D On Road	\$ 13,661.00
10042107.1	FS100-MKS 12V s/a Ø4.50 Burner D2 On Road	\$ 13,661.00
10042107.2	FS100-MKS 12V s/a Ø4.50 Burner D Off Road	\$ 13,661.00
10042107.3	FS100-MKS 12V s/a Ø4.50 Burner D2 Off Road	\$ 13,661.00
10042109	FS100-MKS 12V e/r Ø5.00	\$ 13,661.00
10042110	FS100-MKS 12V e/a Ø5.00	\$ 13,661.00
10042111	FS100-MKS 12V s/r Ø5.00	\$ 13,661.00
10042112	FS100-MKS 12V s/a Ø5.00	\$ 13,661.00
10042113	FS100-MKS 24V e/r Ø4.50 Burner D On Road	\$ 14,119.00
10042113.1	FS100-MKS 24V e/r Ø4.50 Burner D2 On Road	\$ 14,119.00
10042113.2	FS100-MKS 24V e/r Ø4.50 Burner D Off Road	\$ 14,119.00
10042113.3	FS100-MKS 24V e/r Ø4.50 Burner D2 Off Road	\$ 14,119.00
10042115	FS100-MKS 24V e/a Ø4.50 Burner D On Road	\$ 14,119.00
10042115.1	FS100-MKS 24V e/a Ø4.50 Burner D2 On Road	\$ 14,119.00
10042115.2	FS100-MKS 24V e/a Ø4.50 Burner D Off Road	\$ 14,119.00
10042115.3	FS100-MKS 24V e/a Ø4.50 Burner D2 Off Road	\$ 14,119.00
10042117	FS100-MKS 24V s/r Ø4.50 Burner D On Road	\$ 14,119.00
10042117.1	FS100-MKS 24V s/r Ø4.50 Burner D2 On Road	\$ 14,119.00
10042117.2	FS100-MKS 24V s/r Ø4.50 Burner D Off Road	\$ 14,119.00
10042117.3	FS100-MKS 24V s/r Ø4.50 Burner D2 Off Road	\$ 14,119.00
10042119	FS100-MKS 24V s/a Ø4.50 Burner On Road	\$ 14,119.00
10042119.1	FS100-MKS 24V s/a Ø4.50 Burner D2 On Road	\$ 14,119.00
10042119.2	FS100-MKS 24V s/a Ø4.50 Burner D Off Road	\$ 14,119.00
10042119.3	FS100-MKS 24V s/a Ø4.50 Burner D2 Off Road	\$ 14,119.00
10042121	DPF FS 100-MKS e/r V1 24V	\$ 14,119.00

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Product Number	Description	Price
10042122	FS100-MKS 24V e/a Ø5.00	\$ 14,119.00
10042123	FS100-MKS 24V s/r Ø5.00	\$ 14,119.00
10042124	FS100-MKS 24V s/a Ø5.00	\$ 14,119.00
10043101	FS100-MKM 12V e/r Ø4.50 Burner D On Road	\$ 15,112.00
10043101.1	FS100-MKM 12V e/r Ø4.50 Burner D2 On Road	\$ 15,112.00
10043101.2	FS100-MKM 12V e/r Ø4.50 Burner D Off Road	\$ 15,112.00
10043101.3	FS100-MKM 12V e/r Ø4.50 Burner D2 Off Road	\$ 15,112.00
10043103	FS100-MKM 12V e/a Ø4.50 Burner D On Road	\$ 15,112.00
10043103.1	FS100-MKM 12V e/a Ø4.50 Burner D2 On Road	\$ 15,112.00
10043103.2	FS100-MKM 12V e/a Ø4.50 Burner D Off Road	\$ 15,112.00
10043103.3	FS100-MKM 12V e/a Ø4.50 Burner D2 Off Road	\$ 15,112.00
10043105	FS100-MKM 12V s/r Ø4.50 Burner D On Road	\$ 15,112.00
10043105.1	FS100-MKM 12V s/r Ø4.50 Burner D2 On Road	\$ 15,112.00
10043105.2	FS100-MKM 12V s/r Ø4.50 Burner D Off Road	\$ 15,112.00
10043105.3	FS100-MKM 12V s/r Ø4.50 Burner D2 Off Road	\$ 15,112.00
10043107	FS100-MKM 12V s/a Ø4.50 Burner D On Road	\$ 15,112.00
10043107.1	FS100-MKM 12V s/a Ø4.50 Burner D2 On Road	\$ 15,112.00
10043107.2	FS100-MKM 12V s/a Ø4.50 Burner D Off Road	\$ 15,112.00
10043107.3	FS100-MKM 12V s/a Ø4.50 Burner D2 Off Road	\$ 15,112.00
10043109	FS100-MKM 12V e/r Ø5.00	\$ 15,112.00
10043110	FS100-MKM 12V e/a Ø5.00	\$ 15,112.00
10043111	FS100-MKM 12V s/r Ø5.00	\$ 15,112.00
10043112	FS100-MKM 12V s/a Ø5.00	\$ 15,112.00
10043113	FS100-MKM 24V e/r Ø4.50 Burner D On Road	\$ 15,569.00
10043113.1	FS100-MKM 24V e/r Ø4.50 Burner D2 On Road	\$ 15,569.00
10043113.2	FS100-MKM 24V e/r Ø4.50 Burner D Off Road	\$ 15,569.00
10043113.3	FS100-MKM 24V e/r Ø4.50 Burner D2 Off Road	\$ 15,569.00
10043115	FS100-MKM 24V e/a Ø4.50 Burner D On Road	\$ 15,569.00
10043115.1	FS100-MKM 24V e/a Ø4.50 Burner D2 On Road	\$ 15,569.00
10043115.2	FS100-MKM 24V e/a Ø4.50 Burner D Off Road	\$ 15,569.00
10043115.3	FS100-MKM 24V e/a Ø4.50 Burner D2 Off Road	\$ 15,569.00
10043117	FS100-MKM 24V s/r Ø4.50 Burner D On Road	\$ 15,569.00
10043117.1	FS100-MKM 24V s/r Ø4.50 Burner D2 On Road	\$ 15,569.00
10043117.2	FS100-MKM 24V s/r Ø4.50 Burner D Off Road	\$ 15,569.00
10043117.3	FS100-MKM 24V s/r Ø4.50 Burner D2 Off Road	\$ 15,569.00
10043119	FS100-MKM 24V s/a Ø4.50 Burner D On Road	\$ 15,569.00
10043119.1	FS100-MKM 24V s/a Ø4.50 Burner D2 On Road	\$ 15,569.00
10043119.2	FS100-MKM 24V s/a Ø4.50 Burner D Off Road	\$ 15,569.00
10043119.3	FS100-MKM 24V s/a Ø4.50 Burner D2 Off Road	\$ 15,569.00
10043121	DPF FS 100-MKM e/r V1 24V	\$ 15,569.00
10043122	DPF FS 100-MKM e/a V1 24V	\$ 15,569.00
10043123	FS100-MKM 24V s/r Ø5.00	\$ 15,569.00
10043124	FS100-MKM 24V s/a Ø5.00	\$ 15,569.00
10044101	FS100-MKL 12V e/r Ø4.50 Burner D On Road	\$ 17,261.00
10044101.1	FS100-MKL 12V e/r Ø4.50 Burner D2 On Road	\$ 17,261.00
10044101.2	FS100-MKL 12V e/r Ø4.50 Burner D Off Road	\$ 17,261.00
10044101.3	FS100-MKL 12V e/r Ø4.50 Burner D2 Off Road	\$ 17,261.00
10044103	FS100-MKL 12V e/a Ø4.50 Burner D On Road	\$ 17,261.00
10044103.1	FS100-MKL 12V e/a Ø4.50 Burner D2 On Road	\$ 17,261.00
10044103.2	FS100-MKL 12V e/a Ø4.50 Burner D Off Road	\$ 17,261.00
10044103.3	FS100-MKL 12Ve/a Ø4.50 Burner D2 Off Road	\$ 17,261.00
10044105	FS100-MKL 12V s/r Ø4.50 Burner D On Road	\$ 17,261.00
10044105.1	FS100-MKL 12V s/r Ø4.50 Burner D2 On Road	\$ 17,261.00
10044105.2	FS100-MKL 12V s/r Ø4.50 Burner D Off Road	\$ 17,261.00

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Product Number	Description	Price
10044105.3	FS100-MKL 12V s/r Ø4.50 Burner D2 Off Road	\$ 17,261.00
10044107	FS100-MKL 12V s/a Ø4.50 Burner D On Road	\$ 17,261.00
10044107.1	FS100-MKL 12V s/a Ø4.50 Burner D2 On Road	\$ 17,261.00
10044107.2	FS100-MKL 12V s/a Ø4.50 Burner D Off Road	\$ 17,261.00
10044107.3	FS100-MKL 12V s/a Ø4.50 Burner D2 Off Road	\$ 17,261.00
10044109	FS100-MKL 12V e/r Ø5.00	\$ 17,261.00
10044110	FS100-MKL 12V e/a Ø5.00	\$ 17,261.00
10044111	FS100-MKL 12V s/r Ø5.00	\$ 17,261.00
10044112	FS100-MKL 12V s/a Ø5.00	\$ 17,261.00
10044113	FS100-MKL 24V e/r Ø4.50 Burner D On Road	\$ 17,719.00
10044113.1	FS100-MKL 24V e/r Ø4.50 Burner D2 On Road	\$ 17,719.00
10044113.2	FS100-MKL 24V e/r Ø4.50 Burner D Off Road	\$ 17,719.00
10044113.3	FS100-MKL 24V e/r Ø4.50 Burner D2 Off Road	\$ 17,719.00
10044115	FS100-MKL 24V e/a Ø4.50 Burner D On Road	\$ 17,719.00
10044115.1	FS100-MKL 24V e/a Ø4.50 Burner D2 On Road	\$ 17,719.00
10044115.2	FS100-MKL 24V e/a Ø4.50 Burner D Off Road	\$ 17,719.00
10044115.3	FS100-MKL 24V e/a Ø4.50 Burner D2 Off Road	\$ 17,719.00
10044117	FS100-MKL 24V s/r Ø4.50 Burner D On Road	\$ 17,719.00
10044117.1	FS100-MKL 24V s/r Ø4.50 Burner D2 On Road	\$ 17,719.00
10044117.2	FS100-MKL 24V s/r Ø4.50 Burner D Off Road	\$ 17,719.00
10044117.3	FS100-MKL 24V s/r Ø4.50 Burner D2 Off Road	\$ 17,719.00
10044119	FS100-MKL 24V s/a Ø4.50 Burner D On Road	\$ 17,719.00
10044119.1	FS100-MKL 24V s/a Ø4.50 Burner D2 On Road	\$ 17,719.00
10044119.2	FS100-MKL 24V s/a Ø4.50 Burner D Off Road	\$ 17,719.00
10044119.3	FS100-MKL 24V s/a Ø4.50 Burner D2 Off Road	\$ 17,719.00
10044121	FS100-MKL 24V e/r Ø5.00	\$ 17,719.00
10044122	DPF FS 100-MKL e/a V1 24V	\$ 17,719.00
10044123	DPF FS 100-MKL s/r V1 24V	\$ 17,719.00
10044124	FS100-MKL 24V s/a Ø5.00	\$ 17,719.00
10044154	FS300-MKL 12V e/r 4.50 Burner D On Road	\$ 49,900.00
10044154.1	FS300-MKL 12V e/r 4.50 Burner D2 On Road	\$ 49,900.00
10044154.2	FS300-MKL 12V e/r 4.50 Burner D Off Road	\$ 51,112.00
10044154.3	FS300-MKL 12V e/r 4.50 Burner D2 Off Road	\$ 51,112.00
10044155	FS300-MKL 12V e/a 4.50 Burner D On Road	\$ 49,900.00
10044155.1	FS300-MKL 12V e/a 4.50 Burner D2 On Road	\$ 49,900.00
10044155.2	FS300-MKL 12V e/a 4.50 Burner D Off Road	\$ 51,112.00
10044155.3	FS300-MKL 12V e/a 4.50 Burner D2 Off Road	\$ 51,112.00
10044156	FS300-MKL 12V s/r 4.50 Burner D On Road	\$ 49,900.00
10044156.1	FS300-MKL 12V s/r 4.50 Burner D2 On Road	\$ 49,900.00
10044156.2	FS300-MKL 12V s/r 4.50 Burner D Off Road	\$ 51,112.00
10044156.3	FS300-MKL 12V s/r 4.50 Burner D2 Off Road	\$ 51,112.00
10045101	FS200-MKS 12V e/r Ø4.50 Burner D on Road	\$ 28,384.00
10045101.1	FS200-MKS 12V e/r Ø4.50 Burner D2 On Road	\$ 28,384.00
10045101.2	FS200-MKS 12V e/r Ø4.50 Burner D Off Road	\$ 28,384.00
10045101.3	FS200-MKS 12V e/r Ø4.50 Burner D2 Off Road	\$ 28,384.00
10045103	FS200-MKS 12V e/a Ø4.50 Burner D On Road	\$ 28,384.00
10045103.1	FS200-MKS 12V e/a Ø4.50 Burner D2 On Road	\$ 28,384.00
10045103.2	FS200-MKS 12V e/a Ø4.50 Burner D Off Road	\$ 28,384.00
10045103.3	FS200-MKS 12V e/a Ø4.50 Burner D2 Off Road	\$ 28,384.00
10045105	FS200-MKS 24V s/r Ø4.50 Burner D On Road	\$ 29,299.00
10045105.1	FS200-MKS 24V s/r Ø4.50 Burner D2 On Road	\$ 29,299.00
10045105.2	FS200-MKS 24V s/r Ø4.50 Burner D Off Road	\$ 29,299.00
10045105.3	FS200-MKS 24V s/r Ø4.50 Burner D2 Off Road	\$ 29,299.00
10045107	FS200-MKS 24V s/a Ø4.50 Burner D On Road	\$ 29,299.00

HUSS LLC Filter Product Number List

Product Number	Description	Price
10045107.1	FS200-MKS 24V s/a Ø4.50 Burner D2 On Road	\$ 29,299.00
10045107.2	FS200-MKS 24V s/a Ø4.50 Burner D Off Road	\$ 29,299.00
10045107.3	FS200-MKS 24V s/a Ø4.50 Burner D2 Off Road	\$ 29,299.00
10046101	FS200-MKM 12V e/r Ø4.50 Burner D On Road	\$ 31,284.00
10046101.1	FS200-MKM 12V e/r Ø4.50 Burner D2 On Road	\$ 31,284.00
10046101.2	FS200-MKM 12V e/r Ø4.50 Burner D Off Road	\$ 31,284.00
10046101.3	FS200-MKM 12V e/r Ø4.50 Burner D2 Off Road	\$ 31,284.00
10046103	FS200-MKM 12V e/a Ø4.50 Burner D On Road	\$ 31,284.00
10046103.1	FS200-MKM 12V e/a Ø4.50 Burner D2 On Road	\$ 31,284.00
10046103.2	FS200-MKM 12V e/a Ø4.50 Burner D Off Road	\$ 31,284.00
10046103.3	FS200-MKM 12V e/a Ø4.50 Burner D2 Off Road	\$ 31,284.00
10046105	FS200-MKM 24V e/r Ø4.50 Burner D On Road	\$ 32,199.00
10046105.1	FS200-MKM 24V e/r Ø4.50 Burner D2 On Road	\$ 32,199.00
10046105.2	FS200-MKM 24V e/r Ø4.50 Burner D Off Road	\$ 32,199.00
10046105.3	FS200-MKM 24V e/r Ø4.50 Burner D2 Off Road	\$ 32,199.00
10046107	FS200-MKM 24V e/a Ø4.50 Burner D On Road	\$ 32,199.00
10046107.1	FS200-MKM 24V e/a Ø4.50 Burner D2 On Road	\$ 32,199.00
10046107.2	FS200-MKM 24V e/a Ø4.50 Burner D Off Road	\$ 32,199.00
10046107.3	FS200-MKM 24V e/a Ø4.50 Burner D2 Off Road	\$ 32,199.00
10047101	FS200-MKL 12V e/r Ø4.50 Burner D On Road	\$ 35,584.00
10047101.1	FS200-MKL 12V e/r Ø4.50 Burner D2 On Road	\$ 35,584.00
10047101.2	FS200-MKL 12V e/r Ø4.50 Burner D Off Road	\$ 35,584.00
10047101.3	FS200-MKL 12V e/r Ø4.50 Burner D2 Off Road	\$ 35,584.00
10047103	FS200-MKL 12V e/a Ø4.50 Burner D On Road	\$ 35,584.00
10047103.1	FS200-MKL 12V e/a Ø4.50 Burner D2 On Road	\$ 35,584.00
10047103.2	FS200-MKL 12V e/a Ø4.50 Burner D Off Road	\$ 35,584.00
10047103.3	FS200-MKL 12V e/a Ø4.50 Burner D2 Off Road	\$ 35,584.00
10047105	FS200-MKL 24V e/r Ø4.50 Burner D On Road	\$ 36,498.00
10047105.1	FS200-MKL 24V e/r Ø4.50 Burner D2 On Road	\$ 36,498.00
10047105.2	FS200-MKL 24V e/r Ø4.50 Burner D Off Road	\$ 36,498.00
10047105.3	FS200-MKL 24V e/r Ø4.50 Burner D2 Off Road	\$ 36,498.00
10047107	FS200-MKL 24V e/a Ø4.50 Burner D On Road	\$ 36,498.00
10047107.1	FS200-MKL 24V e/a Ø4.50 Burner D2 On Road	\$ 36,498.00
10047107.2	FS200-MKL 24V e/a Ø4.50 Burner D Off Road	\$ 36,498.00
10047107.3	FS200-MKL 24V e/a Ø4.50 Burner D2 Off Road	\$ 36,498.00
10047412.1	FS206-MDL 24V D=114,3	\$ 42,892.00



LINE 002 - PRICE LIST "B"

ESW GROUP

ESW GROUP US DISTRIBUTOR PRICING IN US DOLLARS

ThermaCat™ Active Diesel Particulate Filter >CARB Verified Level III* 90% PM Reduction					
Part #	DPF Size	US DNet	MSRP	Application On-Road	Application Off-Road
E141-001	5.66 X 6.00		\$ 9,103.68	>50 HP	>40 HP
E142-009	7.50 X 12.00		\$ 11,039.52	50 - 140 HP	40 - 125 HP
E143-009	9.00 X 12.00		\$ 12,112.08	100 - 200	100-175 HP
E144-009	10.50 X 12.00		\$ 13,995.60	175-250 HP	125 - 225 HP
E145-011	11.25 X 14.00		\$ 15,382.08	225 - 375 HP	200 - 300 HP
E146-011	12.00 X 14.00		\$ 17,893.44	350 - 450 HP	275 - 375 HP
E147-009	15.00 X 12.00		\$ 20,274.00	400 - 550	350 - 425 HP
CleanCat™ HP - 40% PM Reduction					
Part #	DPF Size	US DNet	MSRP	Application On-Road	
E100	7.5"		\$ 906.05	<250 HP	
E101	9.5"		\$ 1,318.99	200 - 350 HP	
E102	10.5"		\$ 1,846.14	300 - 425 HP	
E103	12"		\$ 2,668.22	400 - 550 HP	
CleanCat™ HP Muffler Replacement - 40% PM Reduction					
Part #	DPF Size	US DNet	MSRP	Application On-Road	
E139	7.5"		\$ 1,092.00	<250 HP	Front In & Front Out
E140	7.5"		\$ 1,154.40	<250 HP	Front In - Rear Out
CleanCat™ XP DOC - 50% PM Reduction Standard Round Can Design					
Part #	DPF Size	US DNet	MSRP	Application On-Road	
E041	7.5"		\$ 2,419.80	50 - 150 HP	
E042	9.5"		\$ 2,687.94	125 -250 HP	
E043	10.5"		\$ 3,370.72	200 - 350 HP	
E044	12"		\$ 4,278.47	300 - 450 HP	
Particulate Reactor - CARB Formerly Verified Level II - 50% PM Reduction- Standard Round Can Design					
Part #	DPF Size	US DNet	MSRP	Application On-Road	
E121	10.5"		\$ 4,553.48	50 - 150 HP	
E125	12"		\$ 5,763.38	125 -250 HP	
E151	14"		\$ 7,758.08	200 - 350 HP	

– ADVANCED TECHNOLOGY FOR A CLEANER FUTURE –

335 Connie Crescent, Concord ON Canada L4K 5R2 • Tel: 905-695-4142 • Fax: 905-695-5013

www.ESWGroup.com

Part #	Description	Notes	DNET	National Fleet	Major Fleet	Fleet	Retail
AZ28	AZ PuriMuffler	Level 1 DOC	\$	\$ 1,127.82	\$ 1,315.79	\$ 1,435.41	\$ 1,754.39
AZ29	AZ PuriMuffler	Level 1 DOC	\$	\$ 1,343.98	\$ 1,567.98	\$ 1,710.52	\$ 2,090.64
AZ29	AZ PuriMuffler	Under Cab Muffler - 7400	\$	\$ 1,466.18	\$ 1,710.54	\$ 1,866.05	\$ 2,280.72
AZ30	AZ PuriMuffler	Level 1 DOC	\$	\$ 1,785.71	\$ 2,083.33	\$ 2,272.73	\$ 2,777.78
AZ31	AZ PuriMuffler	Level 1 DOC	\$	\$ 2,631.88	\$ 3,070.52	\$ 3,349.66	\$ 4,094.03
AZ33	AZ PuriMuffler	Level 1 DOC	\$	\$ 3,865.41	\$ 4,276.31	\$ 4,665.07	\$ 5,701.75
Includes 2 Torca Torc-Tite™ Lap Clamps							
AZ28	AZ Purifier	Level 1 DOC	\$	\$ 873.21	\$ 1,018.75	\$ 1,111.36	\$ 1,358.33
AZ29	AZ Purifier	Level 1 DOC	\$	\$ 1,025.00	\$ 1,195.83	\$ 1,304.55	\$ 1,584.44
AZ30	AZ Purifier	Level 1 DOC	\$	\$ 1,390.98	\$ 1,622.81	\$ 1,770.34	\$ 2,163.75
AZ31	AZ Purifier	Level 1 DOC	\$	\$ 2,246.23	\$ 2,620.60	\$ 2,858.84	\$ 3,494.14
AZ33	AZ Purifier	Level 1 DOC	\$	\$ 3,505.64	\$ 4,089.92	\$ 4,461.73	\$ 5,453.22
Includes 2 Torca Torc-Tite™ Lap Clamps							
SC13	Purifier	Level 3 DPF	\$	\$ 6,850.46	\$ 7,992.20	\$ 8,718.77	\$ 10,656.27
SC17	Purifier	Level 3 DPF	\$	\$ 8,187.13	\$ 9,551.65	\$ 10,419.98	\$ 12,735.53
SC20	Purifier	Level 3 DPF	\$	\$ 10,609.86	\$ 12,378.17	\$ 13,503.45	\$ 16,504.22
SC23	Purifier	Level 3 DPF	\$	\$ 11,361.73	\$ 13,255.35	\$ 14,460.38	\$ 17,673.80
SC28	Purifier	Level 3 DPF	\$	\$ 13,233.08	\$ 15,438.59	\$ 16,842.10	\$ 20,584.79
Includes 2 Torca Torc-Tite™ lap clamps, 2 Universal Mounting Straps and a Back-Pressure Monitor Logger Kit							
GDTCC250411	Vibration Mounts	One every vehicle - Level 3	\$	\$ 309.11	\$ 360.63	\$ 393.41	\$ 480.84
GDTCC190034	Purifier Element	SC13/SCP13	\$	\$ 6,182.13	\$ 7,212.48	\$ 7,868.16	\$ 9,616.64
GDTCC190046	Purifier Element	SC17/SCP17	\$	\$ 7,769.43	\$ 9,064.33	\$ 9,888.36	\$ 12,085.78
GDTCC190048	Purifier Element	SC20/SCP20	\$	\$ 8,771.94	\$ 10,233.93	\$ 11,164.28	\$ 13,645.23
GDTCC190037	Purifier Element	SC23/SCP23	\$	\$ 9,983.29	\$ 11,647.17	\$ 12,708.00	\$ 15,529.56
GDTCC190038	Purifier Element	SC28/SCP28	\$	\$ 12,280.70	\$ 14,327.46	\$ 15,629.98	\$ 19,103.31
SCP13	Purifier Plus	Level 3 DPF	\$	\$ 11,831.24	\$ 13,803.11	\$ 15,057.94	\$ 18,404.15
SCP17	Purifier Plus	Level 3 DPF	\$	\$ 12,972.43	\$ 15,134.50	\$ 16,510.36	\$ 20,179.33
SCP20	Purifier Plus	Level 3 DPF	\$	\$ 14,118.63	\$ 16,471.74	\$ 17,959.17	\$ 21,962.32
SCP23	Purifier Plus	Level 3 DPF	\$	\$ 16,463.67	\$ 18,040.94	\$ 19,681.03	\$ 24,054.59
SCP28	Purifier Plus	Level 3 DPF	\$	\$ 19,231.41	\$ 22,436.65	\$ 24,476.34	\$ 29,915.53
Includes 2 Torca Torc-Tite™ lap clamps, 2 Universal Mounting Straps and a Back-Pressure Monitor Logger Kit							
GDTA690030	Panel 240		\$	\$ 5,513.78	\$ 6,432.74	\$ 7,017.54	\$ 8,576.99
GDTA690029	Panel 480	For all except SCP 28	\$	\$ 5,246.44	\$ 6,120.85	\$ 6,677.29	\$ 8,161.14
GDTA690031	Panel 480	For SCP28	\$	\$ 5,566.41	\$ 7,660.81	\$ 8,357.25	\$ 10,214.42
	CombiClean Automated		\$	\$ 20,175.44	\$ 23,538.02	\$ 25,677.84	\$ 31,394.02
All ECS DOC and DPF Product is freight collect. FOB Thornhill, ON Canada. Freight is not included in DNET. Brokerage fees are included.							
Closed Crankcase Ventilation System							
GDTCCV001NB	CCV KIT, INTL I6 ENGINE		\$	\$ 517.10	\$ 603.28	\$ 658.13	\$ 804.38
GDTCCV002NB	CCV KIT, INTL T444E HYD		\$	\$ 488.38	\$ 569.78	\$ 621.58	\$ 759.70
GDTCCV003NB	CCV KIT, INTL T444E, ON ENGINE		\$	\$ 327.29	\$ 381.84	\$ 416.55	\$ 509.12
GDTCCV004NB	CCV KIT, CUMMINS 5.9 / ISB		\$	\$ 627.69	\$ 615.64	\$ 671.60	\$ 820.85
GDTCCV005NB	CCV KIT, CAT 3116 / 3126		\$	\$ 492.83	\$ 574.97	\$ 627.24	\$ 766.63
GDTCCV006NB	CCV KIT, UNIVERSAL		\$	\$ 650.77	\$ 759.23	\$ 828.25	\$ 1,012.31
GDTCCV007NB	CCV KIT, INTL T444E AIR		\$	\$ 484.86	\$ 565.67	\$ 617.10	\$ 754.23
GDTCCV008NB	CCV KIT,	Was used for S60, When adapting to other applications should add \$50 to \$75 to DNET. Fittings, mounting etc.	\$	\$ 636.48	\$ 742.56	\$ 810.07	\$ 990.09
GDTCCVFE04C	CASE	Element for 01,02,04, 05,06 and 07	\$	\$ 528.55	\$ 616.64	\$ 672.70	\$ 822.19
GDTCCVFE04P	PALLET	Element for 01,02,04, 05,06 and 07	\$	\$ 19,560.76	\$ 22,820.89	\$ 24,895.52	\$ 30,427.85
GDTCCVFE05C	CASE	Element for 003 Kit	\$	\$ 605.69	\$ 706.64	\$ 770.88	\$ 942.19
GDTCCVFE05P	PALLET	Element for 003 Kit	\$	\$ 23,571.81	\$ 27,500.44	\$ 30,000.48	\$ 36,667.26
GDTCCVFE06C	CASE	Element for 008 Kit	\$	\$ 422.62	\$ 493.05	\$ 537.87	\$ 657.40
GDTCCVFE06P	PALLET	Element for 008 Kit	\$	\$ 12,866.53	\$ 15,010.95	\$ 16,375.58	\$ 20,014.60
All CCV product is freight collect, FOB Holly Springs, MS. Freight not included. Exception: Complete of CCV kits one part number, QTY of 30. Exception: Replacement elements. Case and Pallet includes freight.							

LINE 006 - PRICE LIST "D"



A NAVISTAR COMPANY

Letter #: G-19-8141-A
Posted Date: May 19, 2009
Effective Date: Immediately

✓ Part numbers and pricing for the units:

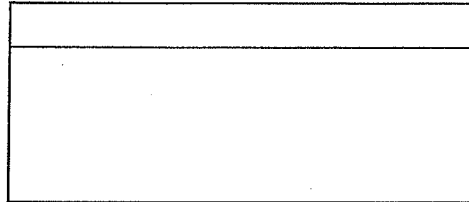
Part Number	Description or Application	Regular Dealer Net	National Fleet
INTAPU146	Fleetrite APU with Caterpillar Tier 2 Engine 2006 or earlier makes trucks CARB Compliant (LIMITED AVAILABILITY)		\$6,295.16
INTAPUT46	Fleetrite APU with Caterpillar Tier 4a Engine—requires DPF filter to be CARB compliant on 2007 or newer trucks		\$7,489.62

LINE 007 - PRICE LIST "E"



INTERNATIONAL TRUCK AND ENGINE CORPORATION

4201 WINFIELD ROAD, P.O. BOX 1488, WARRENVILLE, IL 60555

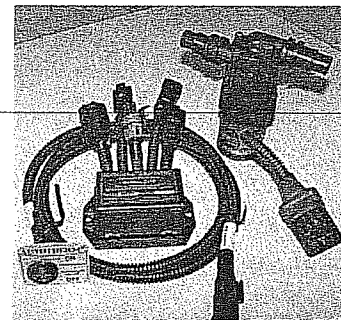


PARTS G-19-7500-A

November 5, 2007

New Program

**Save Big and stay Warm with
AutoTherm's
No Idle Heating System**



AUTOTHERM®: NO IDLE HEATING SYSTEM

International® is proud to announce a new Direct Ship program from AutoTherm®. This Energy Recovery System keeps your cab warm without any engine idling! This system is perfect for anyone who wants to stay warm while doing such things like loading or un-loading, short rest stops, or stopping to eat. It can be retrofitted to any vehicle needing up to 4 hours of heat circulated with the engine off. Great for Medium Duty Applications!

Features and Benefits:

- Energy Recovery System operates the existing heater with the engine off, keeping the cab interior warm without idling
- Can be used when loading, unloading, fueling, meal stops and non-overnight rest and paperwork stops
- Produces up to 4 hours of heat with the driver present or absent; he can return to a warm cab
- Great for any size vehicle, from pickups to medium duty & heavy duty – **not** suitable for heating sleeping compartments overnight
- Simply switch air conditioning to ventilate and it keeps the cab at ambient temperature in summer by ventilating the parked vehicle's interior
- Prolongs engine life by minimizing warp of heads and valves

See attachments for details!

For more information on AUTOTHERM® and all of there great money saving

G-19-7500-A

November 5, 2007

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products visit them at www.autothermusa.com

See Table [1] for Part Number Details.

JAN PENROW / LAURA BROWN
INTERNATIONAL TRUCK AND ENGINE

Table [1]

International Part Number	Autotherm Part Number	Description	DNet	National Fleet
ATHT-2500S	T-2500S	Standard System with Low Voltage Monitor		\$533.75
ATHT-2500D	T-2500D	Deluxe System with Low Voltage Monitor		\$656.25
ATHAP	AP	Accessory Power - Relay & Harness*		\$42.50
ATHAC	HAC	A/C Cut-off - Relay & Harness [Rarely needed]**		\$48.75
ATHCOE	COE	Cab Over Engine [COE] Harness Extension**		\$12.50

* These items included in Deluxe Kit.

** Not included in any kit. Order only if needed for special installations.

PRODUCT AND FUNCTION DESCRIPTION

AUTOTHERM® Systems enable existing vehicle heater to operate with the engine off eliminating the need to idle the engine to keep the interior warm in cold weather. A vehicle not equipped with the AUTOTHERM® System that is not moving, *i.e.* while loading or unloading or at fuel, meal or rest stops, must idle the engine for the heater to work.

The AUTOTHERM® System burns no fuel, emits no pollution and uses very little electrical power. It functions by enabling the vehicles existing heater to operate with the engine off. AUTOTHERM® is easy to install on any 12 volt negative ground vehicle; usually less than three hours with an experienced installer [only five connections are made to the vehicle] and has an installed cost of about \$900.00. The total System weighs less than five pounds and is less than a quarter of a cubic foot in total volume.

The coolant in a warm engine contains considerable amounts of stored or latent waste heat energy already paid for and generated by driving the vehicle. AUTOTHERM® Systems recover this latent, waste heat energy to keep the vehicle interior warm for hours without the need to idle the engine. By continuing the circulation of the hot coolant through the cab heater with the engine off, the System recovers this waste heat for a useful purpose. Absent an AUTOTHERM® System, this stored energy is uselessly dissipated to the exterior or the engine must be idled, wasting a diminishing resource and money and polluting the air.

The engine coolant has stored in it a lot of energy in the form of heat that takes hours to cool to outside temperatures even in cold weather. The AUTOTHERM® concept takes advantage of this physical principle and saves the user thousands of dollars by eliminating the need to idle in cold weather to keep the interior of any motor vehicle warm for extended periods of time.

The length of time a vehicle cooling system stays usefully warm (above 95° F) depends on several factors such as engine size (amount of coolant in system) and outdoor temperatures. When temperatures are at freezing, a small V-8 pick-up truck, with 12 quarts of coolant and the AUTOTHERM® System installed can remain at comfortable interior temperatures (70° F) for approximately an hour. A larger truck, with 48 quarts of coolant, can stay warm for 3-4 hours. Wind will detract from these operating times while sun will add to them.

Large, idling truck engines waste up to a gallon or more of fuel each hour they idle. Idling uses a three to four hundred horsepower engine to circulate three gallons per minute to the heater. The AUTOTHERM® System substitutes a small, 1/100th horse power magnetically coupled pump for the idling engine circulating the same amount of water as the high horse power idling engine. This is an energy efficiency increase of thousands of times.

The system functions automatically and shuts off when the coolant temperature drops to 95° F. A battery voltage sensor monitors battery voltage continuously with the System or vehicle running or off. If low battery voltage is encountered, AUTOTHERM® if running, is turned off and a flashing light signals low battery. The System consumes one amp of current when running. Most power draw when operating comes from the heater fan running at the low or medium speed setting which is all that is necessary to maintain warmth. If more heat is needed, the temperature control setting can be increased. The heater is fully functional [except A/C] when AUTOTHERM® is running.

In warm weather, the System also provides cab ventilation with the AutoVent® feature that keeps excess heat from building up in a stationary vehicle cab but the System does not supply refrigerated air.

Whenever the AUTOTHERM® System runs, it automatically provides Controlled Engine Cool-down. This prevents formation of engine hot spots in warm weather that can cause aluminum heads and engine valves to warp. These added year 'round features provide additional reasons not to idle and lower maintenance costs by extending maintenance intervals and engine life.

The system is fully automatic and once turned on operates automatically each time the engine is turned off. The System operates with the driver in or out of the vehicle with the driver able to return to a warm and ice free vehicle that is securely locked. A feature on the deluxe system permits operation and automatic termination of an accessory such as an AM FM radio.

THE ADVANTAGES OF AUTOTHERM[®] NO IDLE VEHICLE INTERIOR HEATING SYSTEMS OVER OTHER TYPES

- **LOWEST COST**
QUICK RETURN ON INVESTMENT-ONE SEASON OR LESS
- **SIMPLEST TO INSTALL**
LESS THAN THREE HOURS AVERAGE ON MOST VEHICLES
- **BURNS NO FUEL**
COSTS VIRTUALLY NOTHING TO OPERATE-USES WASTE ENERGY ALREADY PAID FOR
- **LOW WEIGHT**
SYSTEM WEIGHS LESS THAN FOUR POUNDS-NO LOSS OF HAULING CAPACITY
- **SMALL VOLUME-UNDER A QUARTER CUBIC FOOT**
NO LOSS OF LOAD SPACE
- **AUTOTHERM[®] SYSTEMS OPERATE THE VEHICLE'S EXISTING HEATER**
ON WHENEVER THE ENGINE IS OFF-AUTOMATIC OPERATION-NO SWITCHES-NO PLUG-INS
- **AUTOMATIC CONTROLLED ENGINE COOL DOWN-WINTER OR SUMMER**
PREVENTS ENGINE HOT SPOTS - INCREASES ENGINE LIFE - CAN REDUCE SUMMER IDLING
- **YEAR 'ROUND IN-CAB BENEFITS:**
WINTER AUTOTHERM[®] INTERIOR HEATING & SUMMER AUTOVENT[™] VENTILATION
- **WORKS WITH THE DRIVER IN OR OUT OF THE VEHICLE**
RETURN TO A WARM, VEHICLE INTERIOR IN WINTER OR A VENTILATED ONE IN SUMMER
- **REQUIRES NO MAINTENANCE**
NO PERIODIC SERVICE-NO ADDITIONAL COST
- **ONE MODEL FITS ALL 12 VOLT NEGATIVE GROUND VEHICLES WITH HEATERS**
ANY SIZE, ANY AGE, ANY MAKE
- **AUTOMATIC IN OPERATION WHEN YOU TURN THE ENGINE OFF**
TURN ON AND OFF ONLY BETWEEN SEASONS OR USE YEAR 'ROUND
- **ELIMINATES 90% OF UNNECESSARY IDLING**
*SAVE THOUSANDS OF DOLLARS IN FUEL AND MAINTENANCE PER VEHICLE PER WINTER
ACCORDING TO U.S. DEPT. OF ENERGY IDLING STUDY*

FREQUENTLY ASKED QUESTIONS

Q. How does the **AUTOTHERM®** System work?

A. When a vehicle is driven, only 40 to 60 % of the energy available from the fuel is converted to torque used to propel the vehicle. The balance of this heat energy is lost as waste heat and transferred to the water surrounding the engine. This waste heat is dissipated to the outside air by the engine cooling system by way of the cooling pump and radiator. In winter, this hot water is also circulated by the engine pump to the cabin heater to keep the passenger compartment warm. When the engine is off, circulation ceases and the heater core rapidly cools to outside temperatures and is no longer able to provide heat to the truck cab. As a result, the engine needs to be idled in order to keep hot water circulating and the heater working.

This hot coolant takes hours to cool down to the ambient (outdoor) temperature. It can be used to heat a stationary vehicle's interior if it can be circulated to the cabin heater. Idling the traction engine has been the only way to accomplish this in the past. Using a 150 to 400 H.P. engine to pump 3 gallons per minute to the heater is no longer a financially, economically or environmentally sound or acceptable method to accomplish this.

The **AUTOTHERM®** System substitutes a small, magnetically coupled, 1/100th H.P. pump for the idling 400 H.P. traction engine and circulates the same 3 gallons of hot engine coolant per minute to the heater but with the engine off.

Q. Why is the **AUTOTHERM®** System called an Energy Recovery System?

A. Because the Systems utilize what would normally be considered lost or wasted energy from another process [combustion to propel a vehicle] and recovers it for a useful purpose [to heat the passenger compartment]. At the same time, **AUTOTHERM®** Systems are also Energy Conservation Systems because they reduce fuel consumption by eliminating the need to idle in order to keep vehicle interiors warm in winter.

Q. How long will **AUTOTHERM®** Systems keep a stationary vehicle warm?

A. Heating time is influenced by four main factors listed in diminishing order of influence, size of engine [coolant capacity], outdoor temperature, wind and sun. The main factors are coolant capacity and outdoor temperature. A typical small V-8 equipped vehicle will stay warm [72° F inside temperature] for an hour when the outside temperature is at freezing. A large class 7 or 8 truck with a large V-8 Diesel containing 40 to 50 quarts of coolant will stay warm for considerably longer approaching 4 hours when outside temperatures are at freezing.

Q. Why do you call **AUTOTHERM®** a System?

A. Because **AUTOTHERM®** Systems are integrated into the vehicle's electrical, heating and engine systems to operate automatically in cold weather each time the engine is turned off. No buttons to push or adjustments to make. The heater continues to run at the same comfort level as if the engine were still running. A seasonal on/off switch turns the System on at the beginning of the heating season and off at the end. A central control unit monitors all functions and operations automatically turning the system on when the engine is turned off and terminating operation when engine coolant temperatures drop below comfort levels or when the engine is turned back on.

Q. Do I need my ignition key to run the **AUTOTHERM®** System?

A. Never! Leaving the ignition key in the on or accessory positions will prevent the system from functioning. **AUTOTHERM®** Systems work only when the engine is off. The vehicle can be left safely locked with the system running. The driver can return to a warm interior hours later without the need to clear snow or ice since it usually melts as it falls on a warm surface. The T-2500 is fully automatic and needs no manual operation once turned on at the beginning of the heating season.

Q. If the system runs such a long time, won't this run down the vehicle battery?

A. Yes and no. The **AUTOTHERM®** System is powered from the vehicle battery. However, it consumes only an amp of current to pump 3 gallons of coolant per minute to the heater. Most of the power is used by the fan and varies from vehicle to vehicle from a low of 2 to 3 amps at low speed to 5-6 amps in older and larger vehicles. The low / medium

fan speed is the maximum needed to keep the interior warm. The fan speed should run at the lowest speed capable of maintaining comfort. The T-2500 model is equipped with a solid state battery voltage sensor that constantly monitors battery voltage under all conditions of vehicle operation, engine or System on or off. When low battery voltage is encountered, a blinking light warns of low battery voltage and turns the **AUTOTHERM®** System off if it is running. This leaves more than enough battery voltage to restart the engine. A flashing light warns of low battery under all conditions of vehicle operation.

- Q. How much fuel can the **AUTOTHERM®** System save me? I always thought Diesel engines sipped fuel and needed to be idled because they're so hard to start in the cold?
- A. Small truck diesel can easily consume $\frac{3}{4}$ of a gallon of fuel in an hour at low idle. A large class 8 truck engine can burn 1 to 1.2 gallons or more at high idle. According to the U.S. Department of Energy, idling each winter costs the trucking industry a per truck average exceeding \$ 2000 and frequently reaching \$4000 per truck, per winter for fuel, increased service intervals, maintenance and decreased vehicle life. Multiply this by 400,000 to 500,000 Trucks and the money wasted in idling each winter becomes substantial. A well maintained diesel engine with winter fuel or fuel additive is not difficult to start. And a warmed diesel is not difficult to restart. The **AUTOTHERM®** Systems never cool engine coolant down to ambient [outside] temperatures. Operation terminates when coolant temperature drops to around 95° F. The rest of the engine coolant cool down takes place at the same rate as any shut off engine. In extremely cold climates, block heaters can keep engines warm enough overnight for an easy restart. When a second block heater is installed along with a small battery charger as well as the **AUTOTHERM®** System, the interiors can also be kept warm overnight.
- Q. How long does it take to install the system on a truck?
- A. It takes the average experienced mechanic about 3 hours to install the standard T-2500 Standard System the first time. Once he has the experience, installation and test can take less than two hours. Detailed pictorial instructions aid subsequent installations. Help is available from the factory 9-4 CST Monday thru Friday.
- Q. Can the average owner-operator install the **AUTOTHERM®** System?
- A. If he is experienced working on and maintaining his vehicle, *i.e.*; changing fuses, engine oil, antifreeze and filters and can read pictorial drawings, yes. There are only five vehicle connections to make. The rest of the connections are between the three System components, the Pump, Central Control Unit and on / off Control Panel. Connections between the three System components are simple, error proof plug-in connections.
- Q. I run overnight in a sleeper cab and stop to rest for three or four hours. Is the **AUTOTHERM®** System able to keep the sleeper warm?
- A. The **AUTOTHERM®** System is not designed for sleepers for eight hours of rest. There is not enough heat energy stored in the system to accomplish this except in the mildest of weather. However, sleepers with integral bunk-cab heaters *i.e.*, International trucks, can be kept warm for approximately the same time as the cab which might be sufficient for short rest stops of three or four hours. In vehicles with separate heaters for the cab and bunk, two **AUTOTHERM®** Systems would have to be installed.
- Q. Is it practical to install the **AUTOTHERM®** System on the cab heater if it does not work on the sleeper?
- A. Yes! The truck still stops for rest and meal stops, to fuel, load and unload and paper work. During these times, the System eliminates the need to idle by keeping the cab warm. Each hour of idling that can be eliminated adds fuel cost savings to the individual that buys and pays for the fuel. Fuel not wasted in idling is fuel not bought and paid for. The savings? Why they go right to the fuel buyers bottom line - **AS PROFIT!**

LINE 008 - PRICE LIST "F"

CCV	Max Airflow	US DNet	MSRP	
E900-M000-AK	3 CFM		\$ 141.80	CCV3500
E900-M001-AK	3 CFM		\$ 141.80	CCV3500
E900-M002-AK	3 CFM		\$ 312.01	CCV3500 - Ford
E900-M901-A	HE Filter		\$ 39.19	
E901-M002-AK	10 CFM		\$ 376.43	CCV4500
E901-M003-AK	10 CFM		\$ 376.43	CCV4500
E901-M901-A	HE Filter		\$ 31.12	
E902-M002-AK	20 CFM		\$ 548.21	CCV6000
E902-M003-AK	20 CFM		\$ 548.21	CCV6000
E902-M901-A	HE Filter		\$ 36.13	
E903-M002-AK	40 CFM		\$ 694.50	CCV8000
E903-M003-AK	40 CFM		\$ 694.50	CCV8000
E903-M901-A	HE Filter		\$ 49.92	